Christopher Ron

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Objective

Seeking an **Entry-Level Software Engineer** position to apply skills in **full-stack development, scalable system design, and cloud computing** in a fast-paced, innovative environment.

Education

Western Washington University, *B.S. in Computer Science*   Sept 2021 – Dec 2024
Relevant Coursework: Database Management, Object-Oriented Programming, Low-Level Programming, Algorithms, Cloud Computing (AWS), Software Development Life Cycle.

Experience

Software Engineer Intern   June 2024 – Present
Teidore – Remote, United States

- Built and optimized a **React-based web app** using Vite and Tailwind CSS, incorporating **automated deployment workflows** for rapid iteration and streamlined development.
- Established the startup's **first scalable payment tracking system**, integrating Stripe webhooks with Supabase for **real-time transaction logging** and **dynamic data visualization** on the donations page, ensuring **future scalability**.
- Developed and maintained core features in a **fast-paced startup environment**, making **59 commits** and merging **6 pull requests** across two repositories. Took ownership of **payment tracking, store search optimization, and PostgreSQL database refactoring**, improving backend efficiency and frontend performance.
- Refactored the **PostgreSQL product database**, transitioning from a **single-table structure** to **multiple retailer-specific tables** with a **unified searchable view**, **reducing query times by 55.6% (1531.76ms → 680.66ms)** on a standardized query while scaling from **920K** to **1M records**.

Projects

AI Chatbot Client
github.com/cjron128/java-chatbot

- Built an **AI-powered chatbot client** in Java using Maven, integrating OpenAI GPT models for **real-time natural language processing**.
- Designed and implemented a **PostgreSQL-backed conversation history system**, ensuring **seamless cross-session chat retrieval**.
- Optimized logging with **SLF4J and Log4j**, filtering outputs to display only **relevant user-bot interactions**.
- Developed **cross-platform support** for chat operations and terminal-based log viewing on **Linux, macOS, and Windows**, improving accessibility.

Skills

Programming Languages: Java, Python, JavaScript, TypeScript, SQL, C, C++

Backend Development: Node.js, REST API development, Supabase, Stripe API integration, scalable system design

Frontend Development: React.js, Vite, Tailwind CSS, Three.js

Databases: PostgreSQL, relational database design, query optimization, indexing, views

Cloud & DevOps: AWS (Cloud Computing, Security), CI/CD pipelines, GitHub Actions

Software Engineering Concepts: Algorithm optimization, search algorithms, data structures, SDLC

System Design & Architecture: Scalable backend systems, database normalization, event-driven architecture, microservices